

## Quick Calculation of Relay Protection Values



### Overview

Use this Protection Relay Setting Calculator to calculate pickup current, time multiplier settings (TMS), operating time, coordination time interval (CTI), and plug setting multiplier (PSM) using fault current, CT ratio, and IEC 60255 curve parameters. Essential tool for relay technicians, protection engineers, and commissioning specialists. For overcurrent. Pick Up Current Definition: The current level at which the relay begins to operate, overcoming the controlling force. Plug Setting Multiplier (PSM):. With the help of these spreadsheets below, you can make your endless calculations much easier! Contact us for more information and download:.

## Quick Calculation of Relay Protection Values



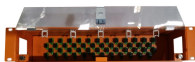
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This platform is designed to make relay protection concepts easier to inspect, test, and communicate. It brings together interactive tools, guided learning modules, and engineering notes so users can move ...



Plug setting multiplier of relay is referred as ratio of fault current in the relay to its pick up current. Suppose we have connected on protection CT of ratio 200/1 A and current setting is 150%.



This calculator determines the pickup current, Time Multiplier Setting (TMS), and suggests a curve type (SI, VI, EI) for overcurrent relays, adhering to IEC 60255 standards for protection coordination.



The relay calculator determines the correct coil current, coil power dissipation, contact rating, pickup and drop-out voltages, and protective components needed for a relay in a circuit.



Calculate thermal overload, overcurrent, ground fault, and differential relay settings with step-by-step examples. Covers CT ratios and common mistakes.



The calculator provides test procedures for both electromechanical and microprocessor-based protective relays according to IEEE C37.90 and manufacturer specifications.



**TAP or PICKUP VALUE:** • A value that defines the pickup current of the relay. Current values are expressed as multiples of this value in the time/current characteristic curves.



Enter rated current, Plug Setting Multiplier (PSM), and Time Dial Setting (TDS) to calculate relay pickup current and operation duration in electrical systems for better protection and ...

## Contact Us

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